CLAIMS

1. A communication system adapted to establish connections to, and between, Internet users, characterised in that said communication system includes a cellular radio communication network adapted to provide a short message service (SMS), and a server adapted to facilitate the establishment of a telephony/Internet connection between a mobile subscriber station of said network and an Internet user, and in that said SMS is adapted to transfer:

- from said mobile subscriber station to said server, information identifying the Internet address for said Internet user; and

- from said server to said mobile subscriber station, information relating to said connection between said mobile subscriber station and said Internet user.

2. A communication system as claimed in claim 1, characterised in that said SMS is used to transfer the following information to said telephony/Internet server:

- the Internet address for an Internet-connected computer terminal of said Internet user; and

- a specific identity for said mobile subscriber station.

3. A communication system as claimed in claim 2, characterised in that said specific identity for said mobile subscriber station is a telephone number for said mobile subscriber station.

4. A communication system as claimed in claim 2, or claim 3, characterised in that said telephony/Internet server includes analysing means for effecting, on receipt of said SMS-transferred information, an A-number analysis to determine the A-telephone number identity of said mobile subscriber station.

5. A communication system as claimed in any of claims 2 to 4, characterised in that

said telephony/Internet server is adapted, in response to receipt of said SMS-transferred information from said mobile subscriber station, to send an SMS to said mobile subscriber station including the following information:

- that call connection to said Internet user is possible; and
- the server's telephone number.

6. A communication system as claimed in claim 5, characterised in that said telephony/Internet server is adapted, on receipt of a call from said mobile subscriber station, made using the server's telephone number, to:

- identify said mobile subscriber station (calling party);
- associate the telephone call with the Internet address previously transferred to said server by said mobile subscriber station; and
- connect the telephone call to the Internet address.

7. A communication system as claimed in claim 6, when appended to either claim 4, or claim 5, characterised in that said telephony/Internet server is adapted to identify said mobile subscriber station (calling party) using said A-number analysing means.

8. A communication system as claimed in claim 7, characterised in that said Internet address is associated with the A-telephone number of said mobile subscriber station for a specific period of time which is monitored by a system timer.

9. A communication system as claimed in any of claims 6 to 8, characterised in that said telephony/Internet server is adapted to connect the telephone call directly to the Internet address.

10. A communication system as claimed in any of claims 6 to 8, characterised in that said telephony/Internet server is adapted to connect the telephone call to the Internet

address via at least one additional Internet server, a server at the end of this chain being adapted to provide Internet telephony services.

11. A communication system as claimed in any preceding claim, characterised in that said telephony/Internet server includes means for establishing and storing a list of Internet addresses for each mobile subscriber station user subscribing to the system, and in that each one of said Internet addresses has an address list number.

12. A communication system as claimed in claim 11, characterised in that said telephony/Internet server is adapted, in response to receipt of said SMS-transferred information from said mobile subscriber station, to send an SMS to said mobile subscriber station including the following information:

- that call connection to said Internet user is possible;
- the server's telephone number; and
- an address list number for the Internet address, each address list number corresponding to one of the Internet addresses in the mobile subscriber station user's address list in the telephony/Internet server.

13. A communication system as claimed in claim 12, characterised in that said address list numbers are stored in a respective mobile subscriber station's telephone number list.

14. A communication system as claimed in any of claims 11 to 13, characterised in that a mobile subscriber station is adapted to request from said telephony/Internet server, and said telephony/Internet server is adapted to supply to the mobile subscriber station, a complete listing of the Internet address list.

15. A communication system as claimed in any of claims 11 to 13, characterised in that a mobile subscriber station is adapted to search for a specific one of the Internet addresses stored by said telephony/Internet server.

16. A communication system as claimed in any of claims 11 to 13, characterised in that said telephony/Internet server is adapted, on receipt of a call connection request from a mobile subscriber station to an unlisted Internet address, to:

- store, and assign an address list number to, the unlisted Internet address; and
- send back, to the mobile subscriber station, via SMS, the following information to enable a user of said mobile subscriber station to call said Internet address:
  - the assigned address list number;
  - the server's telephone number; and
  - information that call connection is possible to the Internet address.

17. A communication system as claimed in any one of the preceding claims, characterised in that said cellular radio communication network is a GSM network.

18. A method for enabling a mobile subscriber station of a cellular radio communication network to make an Internet telephone call to an Internet user, characterised by the use of SMS to transfer:

- from said mobile subscriber station to a telephony/Internet server information identifying the Internet address for said Internet user; and
- from said telephony/Internet server to said mobile subscriber station, information relating to said connection between said mobile station and said Internet user.

19. A method as claimed in claim 18, characterised by said SMS being used to transfer the following information to said telephony/Internet server:

- the Internet address for an Internet-connected computer terminal of said Internet user; and

- a specific identity for said mobile subscriber station.

20. A method as claimed in claim 19, characterised in that said specific identity of said mobile subscriber station is a telephone number for said mobile subscriber station.

21. A method as claimed in claim 19, or claim 20, characterised by said telephony/Internet server, on receipt of said SMS-transferred information, using A-number analysis to determine the A-telephone number identity of said mobile subscriber station.

22. A method as claimed in any of claims 19 to 21, characterised by said telephony/Internet server, in response to receipt of said SMS-transferred information from said mobile subscriber station, sending an SMS to said mobile subscriber station including the following information:

- that call connection to said Internet user is possible; and
- the server's telephone number.

23. A method as claimed in claim 22, characterised by:

- said mobile subscriber station calling the server's telephone number; and
- said server, on receipt of the call from said mobile subscriber station:
  - identifying said mobile subscriber station (calling party);
  - associating the telephone call with the Internet address previously transferred to said server by said mobile subscriber station; and
  - connecting the telephone call to the Internet address.

24. A method as claimed in claim 23, when appended to either claim 21, or claim 22,

characterised by said telephony/Internet server identifying said mobile subscriber station (calling party) using said A-number analysis.

25. A method as claimed in claim 24, characterised by associating said Internet address with the A-telephone number of said mobile subscriber station for a specific period of time, and by monitoring said period of time.

26. A method as claimed in any of claims 23 to 25, characterised by said telephony/Internet server connecting the telephone call directly to the Internet address.

27. A method as claimed in any of claims 23 to 25, characterised by said telephony/Internet server connecting the telephone call to the Internet address via at least one additional Internet server, a server at the end of this chain being adapted to provide Internet telephony services.

28. A method as claimed in any of claims 18 to 27, characterised by said telephony/Internet server establishing and storing a list of Internet addresses for each mobile subscriber station user wishing to make Internet telephone calls, and by each one of said Internet addresses having an address list number.

29. A method as claimed in claim 28, characterised by said telephony/Internet server, in response to receipt of said SMS-transferred information from said mobile subscriber station, sending an SMS to said mobile subscriber station including the following information:

- that call connection to said Internet user is possible;
- the server's telephone number; and
- an address list number for the Internet address, each address list number corresponding to one of the Internet addresses in the mobile subscriber station user's address list in the telephony/Internet server.

30. A method as claimed in claim 29, characterised by storing said address list numbers in a respective mobile subscriber station's telephone number list.

31. A method as claimed in any of claims 28 to 30, characterised by a mobile subscriber station requesting a complete listing of the Internet address list from said telephony/Internet server.

32. A method as claimed in any of claims 28 to 30, characterised by a mobile subscriber station searching for a specific one of the Internet addresses stored by said telephony/Internet server.

33. A method as claimed in any of claims 28 to 30, characterised by said telephony/Internet server, on receipt of a call connection request from a mobile subscriber station to an unlisted Internet address:

- storing, and assigning an address list number to, the unlisted Internet address; and

- sending back, to the mobile subscriber station, via SMS, the following information to enable a user of said mobile subscriber station to call said Internet address:

  - the assigned address list number;

  - the server's telephone number; and

  - information that call connection is possible to the Internet address.

34. A method as claimed in any one of claims 18 to 33, characterised in that said cellular radio communication network is a GSM network.

35. A method for enabling a mobile subscriber station of a cellular radio communication network to make an Internet telephone call to an Internet user, characterised by:

- a user of said mobile subscriber station sending the following information to a telephony/Internet server using SMS:
  - information identifying the Internet address for said Internet user; and
  - the specific identity of said mobile subscriber station (for example, the telephone number for the mobile subscriber station);
- said telephony/Internet server, in response to receipt of said information, sending an SMS to said mobile subscriber station, said SMS including the following information:
  - that connection to said Internet address is possible; and
  - the server's telephone number;
- a user of said mobile subscriber station, on receipt of the SMS from the server, calling the server's telephone number; and
- the server, on receipt of the telephone call from the mobile subscriber station:
  - identifying the calling party (mobile subscriber station) using, for example, A-number analysis; and
  - associating the telephone call with the Internet address previously received in the SMS from the mobile subscriber station; and
  - connecting the telephone call to the Internet address.

36. A method for enabling a mobile subscriber station of a cellular radio communication network to make an Internet telephone call to an Internet user, characterised by:

- establishing and storing a list of Internet addresses for each mobile subscriber station user wishing to make Internet telephone calls;

- assigning, for each address in the Internet address list, a number which uniquely identifies these addresses;

- a user of said mobile subscriber station sending the following information to a telephony/Internet server using SMS:

  - information identifying the Internet address for said Internet user; and

  - the specific identity of said mobile subscriber station (for example, the telephone number for the mobile subscriber station);

- said telephony/Internet server, in response to receipt of said information, sending an SMS to said mobile subscriber station, said SMS including the following information:

  - that connection to said Internet address is possible;

  - the server's telephone number; and

  - an address list number for the Internet address, each address list number corresponding to one of the Internet addresses in the mobile subscriber station user's address list in the telephony/Internet server;

- a user of said mobile subscriber station, on receipt of the SMS from the server, calling the server's telephone number;

- the telephony/Internet server, on receipt of the telephone call from the mobile subscriber station, transmitting a voice message to said mobile subscriber station requesting the user to key in an address list number; and

- when said mobile subscriber station user keys in said address list number, said telephony/Internet server connecting the user of said mobile subscriber station to an Internet user at the Internet address corresponding to the address list number.

37. A method as claimed in claim 36, characterised by said telephony/Internet server, in the absence of a response from the Internet user, notifying the user of said mobile subscriber terminal by means of either a voice message, or tones, as in conventional telephony.

38. A method as claimed in claim 37, characterised by said notification being that the Internet user is engaged, or is not replying, or does not have an Internet telephony application.